Supplementary Material:
Cationic rare-earth-metal methyl complexes: a new preparative access

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Figure S1: $^1$H NMR Spectrum of 1 in [D$_8$]thf at variable temperatures. Signals marked with an * are residual signals of the solvent.
Figure S2: $^{27}$Al NMR Spectrum of 1 at 298 K.

Figure S3: $^1$H NMR Spectrum of 3 in [D$_8$]thf at variable temperatures. Signals marked with an * are residual signals of the solvent.
Figure S4: $^{27}$Al NMR Spectrum of 3 at 298 K.

Figure S3: $^1$H NMR Spectrum of 5 in [D$_8$]thf at variable temperatures. Signals marked with an * are residual signals of the solvent.